

# Notice of Allowability

Application No.

10/605,171

Examiner

Geoffrey S Evans

Applicant(s)

DEREHAG ET AL.

Art Unit

1725

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the filing of the application.
2. ☒ The allowed claim(s) is/are 1-16.
3. ☒ The drawings filed on 12 September 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 20030912
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

*Geoffrey S Evans*  
Geoffrey S Evans  
Primary Examiner  
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### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. The application has been amended as follows:

In the Specification:

In Paragraph [0001]:

On line 4 after "Treaty," insert - - now WO 02/072303 A1, - -.

3. The following is an examiner's statement of reasons for allowance: Jens et al. in U.S. Patent No. 5,922,222 has apparatus and method for making finished mold plates using a cylindrical electrode with a shaped inner surface. Carboneri et al. in U.S. Patent No. 6,627,837 uses an electric discharge machining process to form a disc belonging to the stator of a turbine pump, but machines a workpiece already having narrow channels. Battistini et al. in U.S. Patent No. 6,676,826 uses an electrode multiple times to discharge machine a rotor. Scholler in DE 4,203,656 A1 uses wire EDM to form slots for a turbine rotor. Ibler in EP 327,657 discloses using electrochemical machining to form a blade wheel out of a solid. Inserra et al. in U.S. Patent No. 5,188,514 discloses manufacturing an impeller by a combined motion of rotation and translation.

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Regarding claims 1-13, none of the references of record discloses or suggests, alone or in combination, "spark-eroding, simultaneously, at least a portion of each of a plurality of channels in a first set of channels out of a disk shaped or annular workpiece ... , said channels being configured to delimit said blades in a circumferential direction of the workpiece." Regarding claims 14-16, none of the references of record discloses or suggests, alone or in combination, a device for manufacturing a disk-shaped or annular shaped stator or rotor component having a plurality of blades arranged in a path extending around said component comprising: ... "said spark erosion means (4) further comprising a plurality of spark-erosion electrodes (6) for said contact with the workpiece and which are arranged at a mutual spacing from one another in a curved path so that at least a portion (11) of each of a plurality of channels (12) in a first set of channels can be spark eroded simultaneously out of the workpiece(2), ..., which channels are configured to delimit said blades (13) in the circumferential direction of the workpiece.

4.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Geoffrey S Evans whose telephone number is (571)-

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272-1174. The examiner can normally be reached on Mon-Fri 6:30AM to 4:00 PM,  
alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's  
supervisor, Tom Dunn can be reached on (571)-272-1171. The fax phone number for  
the organization where this application or proceeding is assigned is (703)-872-9306.

GSE

  
Geoffrey S. Evans  
Primary Examiner  
Group 1700